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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
08/573,519	12/15/1995	HIDEO TAKIGUCHI	862.1336	5613

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EXAMINER
JANKUS, ALMIS R

ART UNIT	PAPER NUMBER
2628	

DATE MAILED: 04/19/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

		Application No.	Applicant(s)
Office Action Summary		08/573,519	TAKIGUCHI ET AL.
		Examiner	Art Unit
		Almis R. Jankus	2628

-- *The MAILING DATE of this communication appears on the cover sheet with the correspondence address* --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *18 February 2004*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1,5-20,22-34,110-114,125,126 and 128-134* is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1,5-20,22-34,110-114,125,126 and 128-134* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All b)☐ Some * c)☐ None of:

      1.☐ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____.

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
    Paper No(s)/Mail Date _____.

4) ☐ Interview Summary (PTO-413)
    Paper No(s)/Mail Date. _____.

5) ☐ Notice of Informal Patent Application (PTO-152)

6) ☐ Other: _____.

DETAILED ACTION

1.   Claims 1, 5-20, 22-34, 110-114, 125, 126, and 128-134 are presented for
examination.

2.   The following is a quotation of the appropriate paragraphs of 35
U.S.C. 102 that form the basis for the rejections under this section made in this Office
action:

> A person shall be entitled to a patent unless --
>
> (b) the invention was patented or described in a printed publication in this or a foreign country or in public
> use or on sale in this country, more than one year prior to the date of application for patent in the United
> States.

3.   Claims 1, 5-20, 22-34, 110-114, 125, 126 and 128-134 are rejected under
35 U.S.C. 102(b) as being anticipated by Mackinlay et al.

With respect to claim 1, Mackinlay et al. teach the claimed displaying data items

included within a similar level of linkage position simultaneously in a substantially same

size; and displaying first data items, and second data items linked to said first data

items, which are not included within the similar level of linkage position, mutually

distinguishably in different sizes determined according to a distance of a linkage

between the first and second data, wherein the data items represent time-series data

accumulated time-sequentially, and displayed so that the distance of a linkage between

the displayed first and second data items corresponds to an interval from an

accumulated time of the first data items to an accumulated time of the second data

items, at the whole article, with special notice to page 111 figure 3, and the section

entitled Spiral Calendar.

With respect to claim 5, Mackinlay teaches the claimed displaying a first data item

associated with a first time in which said first data item has been created, in a first size;

and displaying a second data item associated with a second time which is contiguous to

said first time and in which said second data item has been created, in a second size

different from the first size, so that a change of size between said the first and second

sizes corresponds to a temporal direction between said first and second time, at the

whole article, with special notice to page 111 figure 3, and the section entitled Spiral

Calendar.

Claim 6 further requires wherein said distinguishable display is such that a display

screen for said second data items is displayed with a smaller size than one for said first

data items. Mackinlay teach this at the whole article, with special notice to page 111

figure 3, and the section entitled Spiral Calendar.

Claim 7 further requires wherein said first data items are displayed at an outermost

position in a display screen, and said second data items are displayed inside said first

data items with a display area thereof made smaller. Mackinlay teach this at the whole

article, with special notice to page 111 figure 3, and the section entitled Spiral Calendar.

Claim 8 further requires wherein third data items associated with a time contiguous to

the time of said second data items are retrieved, and said third data items are displayed

inside said second data items with a display area thereof made smaller. Mackinlay

teach this at the whole article, with special notice to page 111 figure 3, and the section

entitled Spiral Calendar.

Claim 9 further requires wherein a display of each date is limited to a given number of

data items, and wherein when the number of data items exceeds said given number,

said data items are classified in units of a finer date and displayed distinguishably.

Mackinlay teach this at the whole article, with special notice to page 111 figure 3, and

the section entitled Spiral Calendar.

Claim 10 further requires wherein when zoom-in is designated for a screen display, the

display positions of said first to third data items are shifted outward and the display

areas thereof are made larger. Mackinlay teach this at the whole article, with special

notice to page 111 figure 3, and the section entitled Spiral Calendar.

Claim 11 further requires wherein when said zoom-in is continued for designated period

of time, said first data items are moved out of a display screen, and new data

associated with a date contiguous to a date of data displayed at an innermost position is

retrieved and displayed at said innermost position. Mackinlay teach this at the whole

article, with special notice to page 111 figure 3, and the section entitled Spiral Calendar.

Claim 12 further requires wherein when zoom-out is designated for a screen display, the

display positions of said first to third data items are shifted inward and the display areas

thereof are made smaller. Mackinlay teach this at the whole article, with special notice

to page 111 figure 3, and the section entitled Spiral Calendar.

Claim 13 further requires wherein when said zoom-out is continued for a designated

period of time, data displayed at an innermost position is moved out of a display screen,

and new data associated with a date contiguous to a date of data displayed at an

outermost position is retrieved and displayed at said outermost position. Mackinlay

teach this at the whole article, with special notice to page 111 figure 3, and the section

entitled Spiral Calendar.

Claim 14 further requires wherein said zoom-in or zoom-out is designated in a screen, a

speed of shifting display positions is varied depending on a designated position in said

screen. Mackinlay teach this at the whole article, with special notice to page 111 figure

3, and the section entitled Spiral Calendar.

Claim 15 further requires wherein graphics such as rings or squares representing dates associated with displays are nested and displayed together with representations of data items. Mackinlay teach this at the whole article, with special notice to page 111 figure 3, and the section entitled Spiral Calendar.

Claim 16 further requires wherein said nested display is realized by arranging said graphics such as rings or squares representing dates associates with displays concentrically in units of a given date, and then displaying data items orderly in said graphics. Mackinlay teach this at the whole article, with special notice to page 111 figure 3, and the section entitled Spiral Calendar.

Claim 17 further requires wherein said graphics such as rings or squares representing dates associated with displays are displayed in different colors associated with said dates. Mackinlay teach this at the whole article, with special notice to page 111 figure 3, and the section entitled Spiral Calendar.

Claim 18 further requires wherein said data items are positioned in said graphics at random. Mackinlay teach this at the whole article, with special notice to page 111 figure 3, and the section entitled Spiral Calendar.

Claim 19 further requires wherein said random positions are specified at the time of

data registration. Mackinlay teach this at the whole article, with special notice to page

111 figure 3, and the section entitled Spiral Calendar.

Claim 20 further requires wherein said accumulated time-series data items include data

items accumulated in one-to-one correspondence to dates of creation of data files, data

items accumulated in one-to-one correspondence to dates of correction of files, and

data items accumulated in one-to-one correspondence to designated dates registered

by a user. Mackinlay teach this at the whole article, with special notice to page 111

figure 3, and the section entitled Spiral Calendar.

With respect to claim 22, Mackinlay teaches the claimed a storage means for storing

data accumulated in one-to-one correspondence to times; and a displaying means for

displaying a first data item of a first time in which said first data item has been created,

in a first size and second data item of a second time which is contiguous to said first

time and in which said second data item has been created, in a second size different

from the first size, so that a change of size between the first and second sizes

corresponds to a temporal direction between said first and second time, at the whole

article, with special notice to page 111 figure 3, and the section entitled Spiral Calendar.

Claim 23 further requires wherein said displaying means displays a display screen for

said data items associated with a time contiguous to said desired time with a smaller

size than a display screen for said data items of said desired time according to an

elapsed time. Mackinlay teach this at the whole article, with special notice to page 111

figure 3, and the section entitled Spiral Calendar.

Claim 24 further requires wherein said display8ing means displays said data items of

said desired time at an outermost position in a display screen, and displays said data

items of a time contiguous to said desired time inside said data items of said desired

data with a display area therefore made smaller according to an elapsed time.

Mackinlay teach this at the whole article, with special notice to page 111 figure 3, and

the section entitled Spiral Calendar.

Claim 25 further requires wherein said displaying means includes a display limiting

means for limiting a display of each time to a given number of data items, and a display

dividing means that when the number of data items exceeds said given number,

classifies said data items in units of a finer time and displays said data items mutually

distinguishably. Mackinlay teach this at the whole article, with special notice to page

111 figure 3, and the section entitled Spiral Calendar.

Claim 26 further requires wherein said storage means includes a subdividing and

accumulating means for subdividing a data accumulation unit into units of a finer time in

the event that the number of data items should exceed said given number, and then

accumulating data items. Mackinlay teach this at the whole article, with special notice

to page 111 figure 3, and the section entitled Spiral Calendar.

Claim 27 further requires a zoom designating means for use in designating zoom-in or

zoom-out for a screen display, and a zoom control means that when zoom-in is

designated, shifts the display positions of data items outward so as to increase the

display areas thereof, and that when zoom-out is designated, shifts the display positions

of data items inward so as to decrease the display areas thereof. Mackinlay teach this

at the whole article, with special notice to page 111 figure 3, and the section entitled

Spiral Calendar.

Claim 28 further requires wherein when zoom-in is designated, said zoom control

means moves said data of said desired time out of a display screen, retrieves new data

items associated with a time contiguous to a time of data displayed at an innermost

position, and displays said new data items at said innermost position, and wherein when

zoom-out is designated, said zoom control means moves said data items displayed at

said innermost position out of a display screen, retrieves new data associated with a

time contiguous to a time of data items displayed at an outermost position, and displays

said new data items at said outermost position. Mackinlay teach this at the whole

article, with special notice to page 111 figure 3, and the section entitled Spiral Calendar.

Claim 29 further requires wherein said zoom designating means includes a designation input means for use in making a designation in a screen, and said zoom control means varies a speed of shifting display positions depending on a designated position in said screen. Mackinlay teach this at the whole article, with special notice to page 111 figure 3, and the section entitled Spiral Calendar.

Claim 30 further requires wherein said displaying means includes a means for displaying graphics such as rings or squares representing times associated with displays concentrically in units of a given time, and a means for displaying data items orderly in said graphics, and wherein said graphics such as rings or squares representing times associated with displays are nested and displayed together with representations of data items. Mackinlay teach this at the whole article, with special notice to page 111 figure 3, and the section entitled Spiral Calendar.

Claim 31 further requires wherein said displaying means displays said graphics such as rings or squares representing times associated with displays in different colors associated with said times. Mackinlay teach this at the whole article, with special notice to page 111 figure 3, and the section entitled Spiral Calendar.

Claim 32 further requires wherein said display8ing means positions data items in said graphics at random. Mackinlay teach this at the whole article, with special notice to page 111 figure 3, and the section entitled Spiral Calendar.

Claim 33 further requires wherein said storage means determines said random

positions at the time of data registration. Mackinlay teach this at the whole article, with

special notice to page 111 figure 3, and the section entitled Spiral Calendar.

Claim 34 further requires wherein said stored time-series data items include data items

stored in one-to-one correspondence to times of creation of data files, data items stored

in one-to-one correspondence to times of correction of files, and data items stored in

one-to-one correspondence to designated times registered by a user. Mackinlay teach

this at the whole article, with special notice to page 111 figure 3, and the section entitled

Spiral Calendar.

With respect to claim 110, Mackinlay teaches the claimed computer readable program

code means for displaying data items included within a similar level of linkage position

simultaneously in a substantially same size; and computer readable program code

means for displaying first data items, and second data items linked to said first data

items, which are not included within the similar level of linkage position, mutually

distinguishably in different sizes determined according to a distance of a linkage

between the first and second data, wherein the data items represent time-series data

accumulated time-sequentially, and displayed so that the distance of a linkage between

the displayed first and second data items corresponds to an interval from an

accumulated time of the first data items to an accumulated time of the second data

items, at the whole article, with special notice to page 111 figure 3, and the section

entitled Spiral Calendar.

Claim 111 further requires the computer usable medium further having data linked to be

used by said computer readable program code means. Mackinlay teach this at the

whole article, with special notice to page 111 figure 3, and the section entitled Spiral

Calendar.

With respect to claim 112, Mackinlay teaches the claimed computer readable program

code means for displaying a first data item associated with a first time in which said first

data item has been created, in a first size and a second data item associated a second

time which is contiguous to said first time and in which said second data item has been

created, in a second size different from the first size, so that a change of size between

the first and second sizes corresponds to a temporal direction between said first and

second time, at the whole article, with special notice to page 111 figure 3, and the

section entitled Spiral Calendar.

Claim 113 further requires including computer readable program code means for

zooming in said first and second data items by shifting data in a direction of said second

data items to said first data items and making a display area larger, and for zooming out

said first and second data items by shifting data in a direction of said first data items to

said second data items and making the display area smaller. Mackinlay teach this at

the whole article, with special notice to page 111 figure 3, and the section entitled Spiral Calendar.

Claim 114 further requires wherein the computer usable medium further having time-series data to be used by said computer readable program code means. Mackinlay teach this at the whole article, with special notice to page 111 figure 3, and the section entitled Spiral Calendar.

With respect to claim 125, Mackinlay teaches the claimed a first displaying means for displaying data items included within a similar level of linkage position simultaneously in a substantially same size; and a second displaying means for displaying first data items, and second data items linked to said first data items, which are not included within the similar level of linkage position, mutually distinguishably in different sizes determined according to a distance of a linkage between the first and second data items, wherein the data items represent time-series data accumulated time-sequentially, and displayed so that the distance of a linkage between the displayed first and second data items corresponds to an interval from an accumulated time of the first data items to an accumulated time of the second data items, at the whole article, with special notice to page 111 figure 3, and the section entitled Spiral Calendar.

Claim 126 further requires wherein said data items are displayed with a plurality of stepped sizes according to distances of linkages among a plurality of levels. Mackinlay

teach this at the whole article, with special notice to page 111 figure 3, and the section entitled Spiral Calendar.

Claim 128 further requires wherein said data items represent hierarchical data managed hierarchically and are displayed by regarding a depth in a hierarchy as the distance of a linkage. Mackinlay teach this at the whole article, with special notice to page 111 figure 3, and the section entitled Spiral Calendar.

Claim 129 further requires wherein new data items on the temporal direction are displayed in relatively large size while old data items on the temporal direction are displayed in relatively small size. Mackinlay teach this at the whole article, with special notice to page 111 figure 3, and the section entitled Spiral Calendar.

Claim 130 further requires wherein data items on a perimeter of a screen are displayed in relatively large size while data items on a center of the screen are displayed in relatively small size. Mackinlay teach this at the whole article, with special notice to page 111 figure 3, and the section entitled Spiral Calendar.

Claim 131 further requires wherein said display means displays new data items on the temporal direction in relatively large size while displaying old data items on the temporal direction in relatively small size. Mackinlay teach this at the whole article, with special notice to page 111 figure 3, and the section entitled Spiral Calendar.

Claim 132 further requires wherein said display means displays data items on a

perimeter of a screen in relatively large size while displaying data items on a center of

the screen in relatively small size. Mackinlay teach this at the whole article, with special

notice to page 111 figure 3, and the section entitled Spiral Calendar.

Claim 133 further requires wherein a new data item on the temporal direction is

displayed in relatively large size while old data items on the temporal direction are

displayed in relatively small size. Mackinlay teach this at the whole article, with special

notice to page 111 figure 3, and the section entitled Spiral Calendar.

Claim 134 further requires wherein data items on a perimeter of a screen are displayed

in relatively large size while data items on a center of the screen are displayed in

relatively small size. Mackinlay teach this at the whole article, with special notice to

page 111 figure 3, and the section entitled Spiral Calendar.

4.   Any inquiry concerning this communication or earlier communications from

the examiner should be directed to Almis R. Jankus whose telephone number is 571-

272-7643. The examiner can normally be reached on M-F, 6:30-3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Michael Razavi can be reached on 571-272-7664. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

AJ

ALMIS R. JANKUS
PRIMARY EXAMINER